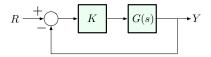
Review: Bode's Gain-Phase Relationship



Assuming that G(s) is *minimum-phase* (i.e., has no RHP zeros), we derived the following for the Bode plot of KG(s):

	low freq.	real zero/pole	complex zero/pole
mag. slope	n	up/down by 1	up/down by 2
phase	$n \times 90^{\circ}$	up/down by 90°	up/down by 180°

We can state this succinctly as follows:

Gain-Phase Relationship. Far enough from break-points,

Phase \approx Magnitude Slope $\times 90^{\circ}$